L Number	Hits	Search Text	DB	Time stamp
1	4	(solder adj ball) with ramp	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/25 10:48
8	0	(solder adj ball) same ramp same reservoir	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/25 10:49
15	43	(solder adj ball) same dispenser	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/25 10:50
22	26	(solder adj ball) with dispenser	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/25 10:51
29	15	(solder adj ball) near3 dispenser	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/25 11:19
36	22	(ball near3 dispenser) same ramp	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/25 12:48
43	1	("4934309").PN.	USPAT	2001/10/25 12:54
-	787	(("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.	USPAT	2001/10/25 10:46
-	400	(solder near2 ball) and vacuum and gas	USPAT	2001/10/17 16:37
-	19	((("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.) and ((solder near2 ball) and vacuum and gas)	USPAT	2001/10/17 16:37
-	3460	(cobbley ball waddel).in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/17 16:37
-	463	(solder near2 ball) and vacuum and gas	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/17 16:38

-	2	((cobbley ball waddel).in.) and ((solder near2 ball) and vacuum and gas)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/17 16:47
-	1856	ball with suction	USPAT	2001/10/17 16:48
-	31	((("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.) and (ball with suction)	USPAT	2001/10/17 16:48
-	9	(("5088639") or ("5284287") or ("5445313") or ("5467913") or ("5615823") or ("5680984") or ("5685477") or ("5687901") or ("5695667")).PN.	USPAT	2001/10/17 17:07
-	861	(pick-up (pick adj up)) near2 ball	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:46
-	58	(positive near2 pressure) and ((negative near2 pressure) vacuum$3 suction$3) and (solder$3 near2 ball)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:20
-	5	(("5788313") or ("5445313")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:21
-	0	((pick-up (pick adj up)) near2 ball) and ((positive near2 pressure) and ((negative near2 pressure) vacuum$3 suction$3) and (solder$3 near2 ball)) and ((("5788313") or ("5445313")).PN.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:42
-	1	((positive near2 pressure) and ((negative near2 pressure) vacuum$3 suction$3) and (solder$3 near2 ball)) and ((("5788313") or ("5445313")).PN.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:22
-	2	(("5788313") or ("5445313")).PN.	USPAT	2001/10/18 10:21
-	1	((positive near2 pressure) and ((negative near2 pressure) vacuum$3 suction$3) and (solder$3 near2 ball)) and ((("5788313") or ("5445313")).PN.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:22
-	2	(("5445313") or ("5788143")).PN.	USPAT	2001/10/18 10:22
-	2	((positive near2 pressure) and ((negative near2 pressure) vacuum$3 suction$3) and (solder$3 near2 ball)) and ((("5445313") or ("5788143")).PN.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:23

-	4	((pick-up (pick adj up)) near2 ball) and ((positive near2 pressure) and ((negative near2 pressure) vacuum$3 suction$3) and (solder$3 near2 ball))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:43
-	92	((pick-up (pick adj up)) near2 ball) and heat$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:44
-	68	((pick-up (pick adj up)) near2 ball) and screen$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:44
-	52	((pick-up (pick adj up)) near2 ball) and ramp	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:44
-	238	((pick-up (pick adj up)) near2 ball) and (axis axes)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:45
-	30	(((pick-up (pick adj up)) near2 ball) and heat$5) and (((pick-up (pick adj up)) near2 ball) and (axis axes))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:45
-	3	(((pick-up (pick adj up)) near2 ball) and screen$5) and ((((pick-up (pick adj up)) near2 ball) and heat$5) and (((pick-up (pick adj up)) near2 ball) and (axis axes)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:45
-	3	((pick-up (pick adj up)) near2 ball) with heater	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:50
-	6	((pick-up (pick adj up)) near2 ball) with screen$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:47
-	2	((pick-up (pick adj up)) near2 ball) with ramp	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:47

-	11	(((pick-up (pick adj up)) near2 ball) with heater) (((pick-up (pick adj up)) near2 ball) with screen$4) (((pick-up (pick adj up)) near2 ball) with ramp)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:47
-	18	((pick-up (pick adj up)) near2 ball) with (axis axes)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 11:53
-	6353	(pick-up (pick adj up)) with (axis axes)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:54
-	10	((pick-up (pick adj up)) with (axis axes)) and (solder$ near2 ball)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 10:55
-	107	((pick-up (pick adj up)) near2 (tool head)) with ball	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 11:57
-	39	(((pick-up (pick adj up)) near2 (tool head)) with ball) and (rotate rotating rotatable movable axis axes)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 12:03
-	203	(solder near2 ball) with load$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 15:45
-	787	(("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.	USPAT	2001/10/18 16:03
-	88	(solder near2 ball) with load$4	USPAT	2001/10/18 15:45
-	9	((("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.) and ((solder near2 ball) with load$4)	USPAT	2001/10/18 15:49
-	1	((solder adj ball) with (feed$4 load$4)) and ramp	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 15:56
-	332	(solder adj ball) with (feed$4 load$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 15:58

-	21	((("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.) and ((solder adj ball) with (feed$4 load$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 16:01
-	2336	ramp with valve	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 16:02
-	520	(ramp with valve) and ball	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 16:02
-	213	(ramp with valve) same ball	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 16:02
-	1302	(("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 16:03
-	0	((ramp with valve) same ball) and ((("228/20.1") or ("228/33") or ("228/41") or ("228/45")).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 16:03
-	2	((ramp with valve) same ball) and solder$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/10/18 16:03